Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

No.KMTH/PMC/B-SD/2022-2023/W5

Date: 28.07.2022

To,
The Executive Engineer,
Byatarayanapura Division,
No.2152/20,Defence Colony,
Shakaranagar, Bangalore-92

"PMC CERTIFICATE AND INSPECTION REPORT"

Dear Sir,

Sub: Regarding inspection report for the below mentioned work.

Name of work: Improvements to Roads and Drains at Palannahalli Chokkanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward No-05 Byatarayanapura Sub Division Package-01

Item No	Description of Work	Unit	Quantity
1	KSRRB300-1. Earthwork excavation by manual means for Drains and similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods completed as per specifications.	Cum	2763.47
2	Removing & Refixing Stone slabs of drains and pointing in CM (1:3) Complete as per specification and direction of the engineer in-charge of the work.	Sqm	1930.46
3	Removing and resetting of footpath slabs complete as per specification and direction of the engineer in-charge of the work	Sqm	286.20
4	Providing Granite Slabs of selected quality Roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete 7.5 cms thick complete as per specification and direction of the engineer in-charge of the work.	Sqm	213.00
5	Plain cement concrete M10 mix with crushed stone aggregates 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour,HOM completed as per specifications	Cum	9.27
6	Providing and Constructing granite /trap/basalt size stone masonry in foundation with cement mortar and stone hammered dressed in courses not less than 20Cms high bond stones at 2m apart in each course including cost of materials. Labors HOM, curing complete as per specification and direction of the engineer in-Charge of the work.	Cum	20.88

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
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8	Providing and laying in position plain/ Reinforced cement concrete M20 for sub structure/superstructure works, with cement @ 320kgs 20mm & down size graded granite metal course aggregates @ 0.69 Cum and fine aggregates @ 0.46cum Machine mix complete as per specification and direction in charge of the work	Cum	17.37
9	KSRRB M2200-6. Providing TMT Bars Fe 500 steel reinforcement for RCC work including Straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary completed as per design ans specification.	Tonnes	1.13
10	Providing and fixing RCC precast cover slab of 250mm thick made out of CC 1:2:4 and jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge.	Sqm	130.65
11	KSRRB M300-14.Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and sides slopes in accordance with requirements of lines grades and cross sections and transportations with a lead of 1.00km and complete as per specifications. MORTH Specification no.301 and 4kms lead for disposal	Cum	2065.31
12	KSRRB M400-17. Providing, Laying, Spreading and Compacting crushed stone aggregates of granite/ trap/basalt to wet mix macadam specifications including pre mixing the materials with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base /base coarse on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specification.	Cum	1567.59
13	Providing and applying primer coat with S.S bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. clause 502 of MORTH V revision	Sqm	40236.24
14	Cleaning the existing black topped surface with Sqm brooms soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, Labour, HOM complete as per specifications. Clause 502 of MORTH V revision.	Sqm	38695.72
15	Providing and applying tack coat using 80/100 grade Sqm bitumen(VGIO) in boiler fitted with spray set distributor at the rate of 0.25 kg per Sqm on the existing prepared bituminous surface cleaned with mechanical broom, complete as per specifications. clause 503 of MORTH V revision	Sqm	80382.47
16	Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, lavel and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 Complete in all respects compete as per specifications MORTH specification No. 507. using 100/120 TPH capacity HMP with sensor paver Gr-II (50mm to 75mm) with 4.5 % VG-30 Bitumen.	Cum	1784.56

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17	providing and laying bituminous concrete 40mm thick with hot mix plant, using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bitumen(60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site laying with a paver finisher to required grade level and alignment rolling with smooth wheeled vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications	Cum	1606.83
18	Road marking with hot applied thermoplastic compound with reflectorizing glass beads on bituminous surface / concrete surface : providing and laying of hot applied thermo plastic compound 2.5mm thick including reflectorizing glass beads at 250gms per sqm area thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35 standards specified. Complete as per specifications.	Sqm	3249.14

With respect to the above subject and name of work, We have inspected the work , Quantity and Quality of above mentioned Items of work was found to be satisfactorily completed for the 2nd and Final Bill.

Thanking You,
With regards

Karnataka Material Test House Pvt Ltd.,
Narayanswamy.B
Managing Director

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

No.KMTH/PMC/SD/2022-23/W5

Date:28.07.2022

To,
The Executive Engineer,
Byatarayanapura Division,
No.2152/20,Defence Colony,
Shakara Nagar, Bangalore-92

"FREQUENCY AND QUALITY REPORT"

Dear Sir,

Sub: Regarding inspection report for the below mentioned work.

Name of work:"Improvements to Roads And Drains at Palannahalli Chokkanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward No-05 Byatarayanapura Sub Division Package-01"

Item No	Description Of Work	Unit	Standards	Quantities				Total Quantity
				1st&Part		2nd&Part		
1	Plain cement concrete M10 mix with crushed stone aggregates 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour,HOM completed as per specifications	Cum	Per 100 Cum	5.42	3.00	9.27	2.00	14.69
2	Providing and laying in position plain/ Reinforced cement concrete M20 for sub structure/superstructure works, with cement @ 320kgs 20mm & down size graded granite metal course aggregates @ 0.69 Cum and fine aggregates @ 0.46cum Machine mix complete as per specification and direction in charge of the work	Cum	Per 100 Cum	22.34	6.00	17.37	2.00	39.71
3	KSRRB M2200-6. Providing TMT Bars Fe 500 steel reinforcement for RCC work including Straightening, cutting, bending, hooking, placing in position, lapping and/or welding whereever required, tying with binding wire and anchoring to the adjoining members whereever necessary completed as per design ans specification.	Tonnes	One of Each Dia	2.04	1.00	1.13	1	3.17
4	Removing and resetting of footpath slabs complete as per specification and direction of the engineer in-charge of the work	Sqm	per 250 Sqm	44.10	3.00	286.20	0	330.30
5	Providing and fixing RCC precast cover slab of 250mm thick made out of CC 1:2:4 and jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge.	Sqm	Per 50 Cum	108.48	3.00	130.65	2.00	239.13

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6	KSRRB M400-17. Providing, Laying, Spreading and Compacting cushed stone aggregates of granite/ trap/basalt to wetmix macadam specifications including pre mixing the materials with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base /base coarse on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specification.	Cum	Per 200 Cum	16194.86	8.00	1567.59	3.00	17762.45
7	Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, lavel and allignment, rolling with smooth wheeled, vibratory and tandom rollers to achieve the desired compaction as per MORTH table 500-10 Complete in all respects compete as per specifications MORTH specification No. 507. using 100/120 TPH capacity HMP with sensor paver Gr-II (50mm to 75mm) with 4.5 % VG-30 Bitumen.	Cum	Per 150 Cum	1547.50	10.00	1784.56	8.00	3332.06
8	providing and laying bituminous concrete 40mm thick with hot mix plant, using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bitumen(60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site laying with a paver finisher to required grade level and allignment rooling with smooth wheeled vibratory and tandem rollers to achive the desired compaction in all respects complete as per specifications	Cum	Per 150 Cum	1294.31	10.00	1606.83	8.00	2901.14

With respect to the above subject and name of work, We have inspected the work , Quantity and Quality of above mentioned Items of work was found to be satisfactorily completed for the 2nd and Final Bill.

Thanking You,

With regards
Karnataka Material Test House Pvt Ltd.

Narayanswamy.B
Managing Director

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To,
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Dear Sir,

Sub: Regarding inspection report for the below mentioned work.

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Item No	Description Of Work	Unit	Quantities		Total Quantity
			1st&Part	2nd&Part	
1	KSRRB300-1. Earthwork excavation by manual means for Drains and similar works in ordinar soil excavated surface levelled and sides neatly dressed, the dispossed earth to be levelled neatly after breaking of clods completed as per specifications.	Cum	4678.52	2763.47	7441.99
2	Removing & Refixing Stone slabs of drains and pointing in CM (1:3) Complete as per specification and direction of the engineer in-charge of the work.	Sqm	4355.20	1930.46	6285.66
3	Removing and resetting of footpath slabs complete as per specification and direction of the engineer in-charge of the work	Sqm	44.10	286.20	330.30
4	Providing Granite Slabs of selected quality Roughly dressed and fixed in cement mortor (1:6) including fixing curing etc., complete 7.5 cms thick complete as per specification and direction of the engineer in-charge of the work.	Sqm	484.11	213.00	697.11
5	Plain cement concrete M10 mix with crushed stone aggregates 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour,HOM completed as per specifications	Cum	5.42	9.27	14.69

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6	Providing and Constructing granite /trap/basalt size stone masonry in foundation with cement mortor and stone hammered dressed in courses not less than 20Cms high bond stones at 2m apart in each course including cost of materials. Labours HOM, curing complete as per specification and direction of the engineer in-Charge of the work.	Cum	7.29	20.88	28.17
7	Providing and laying in position plain/ Reinforced cement concrete M20 for sub structure/superstructure works, with cement @ 320kgs 20mm & down size graded granite metal course aggregates @ 0.69 Cum and fine aggregates @ 0.46cum Machine mix complete as per specification and direction in charge of the work	Cum	22.34	17.37	39.71
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9	Providing and fixing RCC precast cover slab of 250mm thick made out of CC 1:2:4 and jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge.	Sqm	108.48	130.65	239.13
10	KSRRB M300-14.Excavation for roadwork in all types of soil by machinical means including cutting and loading to tippers, trimming bottomand sides slopes in accordance with requirments of lines grades and cross sections and transportations withn alead of 1.00km and complete as per specifications. MORTH Specification no.301 and 4kms lead for disposal	Cum	19102.00	2065.31	21167.31
11	KSRRB M400-17. Providing, Laying, Spreading and Compacting cushed stone aggregates of granite/ trap/basalt to wetmix macadam specifications including pre mixing the materials with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base /base coarse on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specification	Cum	16194.86	1567.59	17762.45

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12	Providing and applying primer coat with S.S bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. clause 502 of MORTH V revision	Sqm	32357.78	40236.24	72594.02
13	Cleaning the existing black topped surface with Sqm brooms soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications.clause 502 of MORTH V revision.	Sqm	0.00	38695.72	38695.72
14	Providing and applying tack coat using 80/100 grade Sqm bitumen(VGIO) in boiler fitted with spray set distributor at the rate of 0.25 kg per Sqm on the existing prepared bituminous surface cleaned with mechanical broom, complete as per specifications. clause 503 of MORTH V revision	Sqm	32357.78	80382.47	112740.25
15	Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, lavel and allignment, rolling with smooth wheeled, vibratory and tandom rollers to achieve the desired compaction as per MORTH table 500-10 Complete in all respects compete as per specifications MORTH specification No. 507. using 100/120 TPH capacity HMP with sensor paver Gr-II (50mm to 75mm) with 4.5 % VG-30 Bitumen.	Cum	1616.54	1784.56	3401.10
16	providing and laying bituminous concrete 40mm thick with hot mix plant, using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bitumen(60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site laying with a paver finisher to required grade level and allignment rooling with smooth wheeled vibratory and tandem rollers to achive the desired compaction in all respects complete as per specifications	Cum	1294.31	1606.83	2901.14

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17	Road marking with hot applied thermoplastic compound with reflectrising glass beads on bituminous surface / concrete surface : providing and laying of hot applied thermo plastic compound 2.5mm thick including reflectorising glass beads at 250gms per sqm area thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35 standards specified.complete as per specifications.	Sqm	1338.33	3249.14	4587.47

With respect to the above subject and name of work, We have inspected the work , Quantity and Quality of above mentioned Items of work was found to be satisfactorily completed for the 2nd and Final Bill.

Thanking You,

With regards
Karnataka Material Test House Pvt Ltd.,

Narayanswamy B.
Managing Director

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